

SEQUENCE LISTING

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Messer, Anne
Lecerf, Jean-Michel

<120> METHODS AND COMPOSITIONS FOR INHIBITING POLYPEPTIDE
ACCUMULATION ASSOCIATED WITH NEUROLOGICAL DISORDERS

<130> INR-004CP

<140>

<141>

<150> 60/146,047

<151> 1999-07-27

<160> 45

<170> PatentIn Ver. 2.0

<210> 1

<211> 345

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<220>

<223> The VH sequence uses a V segment of the VH3
family.

<220>

<223> CDR1 sequence: from base 91 to base 105 (15
bases).

<220>

<223> CDR2 sequence: from base 148 to base 198 (51
bases).

<220>

<223> CDR3 sequence: from base 295 to base 312 (18
bases).

<400> 1

cagggtgcagc tgcaggagtc ggggggaggc ttggtacagc ctgggggggtc cctgagactc 60
tcctgtgcag cctctggatt caccttcagt agttatagca tgagctgggt ccgccaggct 120
ccaggcaagg ggctggagtg ggtggcagtt atatcatatg atggaagcaa taaatactac 180
gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240
cttcaaatga acagcctgag agccgaggac acggccgtgt attactgtgc gagagatagg 300
tacttcgatc tctgggggccg tggcacccctg gtcaccgtct cctca 345

<210> 2

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

sub A17

A

007620-550000

[illegible]

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<210> 3
<211> 327
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> The VL sequence uses a V segment of the VL2
family.

<220>
<223> CDR1 sequence: from base 67 to base 108 (42
bases) .

<220>
<223> CDR2 sequence: from base 154 to base 174 (21
bases) .

<220>
<223> CDR3 sequence: from base 271 to base 294 (24
bases) .
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<400> 3						
cagtctgccc	tgactcagcc	tgccctccgtg	tctgggtctc	ctggacagtc	gatcaccatc	60
tctctgactg	gaaccagcag	tgacattggc	gcttataact	atgtctcctg	gtaccagcag	120
tatccaggca	aggcccccaa	actccttatt	tatgatgtca	gtaatcggcc	ctcagggatt	180
tctaatcgct	tctctgggctc	caagtctggc	gatacggcct	ccctgaccat	ctctggggctc	240
caggctgagg	ccaaggtctga	ttattactgc	agctcatttg	cgaacagcgg	ccccttattc	300
ggcgaggagg	acgaaggtcac	cgctccta				327

<220>

<400> 6

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly
115 120 125

Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Ile Gly
145 150 155 160

Lys Leu Leu Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Ile Ser Asn
180 185 190

Arg Phe Ser Gly Ser Lys Ser Gly Asp Thr Ala Ser Leu Thr Ile Ser
195 200 205

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Phe Ala
210 215 220

Asn Ser Gly Pro Leu Phe Gly Gly Gly Thr Lys Val Thr Val Leu
225 230 235

<210> 7

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 7

tcaccgtctc ctcaggtgga ggcggttcag gcggaggtgg ctct

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 42 glutamine (Q) residues

<400> 11
Leu Val Pro Arg Gly Ser Met Ala Thr Leu Glu Lys Leu Met Lys Ala
1 5 10 15

Phe Glu Ser Leu Lys Ser Phe Leu Gln Pro Gly Ser Thr Arg Ala Ala
20 25 30

Ala Ser

<210> 12
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 47 glutamine (Q) residues

<400> 12
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

Phe Xaa

<210> 13
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 72 glutamine (Q) residues

<400> 13
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

Phe Xaa

001220 55002300

<210> 14
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 104 glutamine (Q) residues

<400> 14
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

Phe Xaa

<210> 15
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 47 glutamine (Q) residues

<400> 15
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

Phe Xaa Leu Gln Pro Gly Gly Ser Thr Met Ser Arg Gly Pro Phe Glu
20 25 30

Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Met His Thr Glu His His
35 40 45

His His His His
50

<210> 16
<211> 52
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<220>
<223> where X represents 72 glutamine (Q) residues

<400> 16
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

007E20 5503360

Phe Xaa Leu Gln Pro Gly Gly Ser Thr Met Ser Arg Gly Pro Phe Glu
20 25 30

Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Met His Thr Glu His His
35 40 45

His His His His
50

<210> 17

<211> 52

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<220>

<223> where X represents 104 glutamine (Q) residues

<400> 17

Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
1 5 10 15

Phe Xaa Leu Gln Pro Gly Gly Ser Thr Met Ser Arg Gly Pro Phe Glu
20 25 30

Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Met His Thr Glu His His
35 40 45

His His His His
50

<210> 18

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<220>

<223> where X represents 25 glutamine (Q) residues

<400> 18

Ile Asp Gly Gly Gly Gly Gly Lys Gly Pro Val Thr Gly Thr Gly Ser
1 5 10 15

Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
20 25 30

Phe Xaa Leu Gln Pro Arg Ile Leu Thr Asn
35 40

<210> 19

001220550300


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<400> 21
Met Ala Thr Leu Glu Lys Leu Met Lys Ala Phe Glu Ser Leu Lys Ser
  1                      5                      10                      15

Phe Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
      20                      25                      30

```

Glu Gly Gly Ser Ser His His Ala His Pro Tyr Ala Met Ser Pro Ser
50 55 60

<210> 24
<211> 81
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<400> 24
Leu Leu Ala Asn Met Gly Ser Leu Ser Gln Thr Pro Gly His Lys Ala
1 5 10 15
Glu Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln His Gln His
20 25 30
Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln His
35 40 45
Leu Ser Arg Ala Pro Gly Leu Ile Thr Pro Gly Ser Pro Pro Pro Ala
50 55 60
Gln Gln Asn Gly Tyr Val His Ile Ser Ser Ser Pro Gln Asn Thr Gly
65 70 75 80
Arg

<210> 25
<211> 72
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct

<400> 25
Arg Pro Ala Cys Glu Pro Val Tyr Gly Pro Leu Thr Met Ser Leu Lys
1 5 10 15
Pro Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
20 25 30
Gln Gln Gln Gln Gln Gln Gln Pro Pro Pro Ala Ala Ala Asn Val Arg
35 40 45
Lys Pro Gly Gly Ser Gly Leu Leu Ala Ser Pro Ala Ala Ala Pro Ser
50 55 60
Pro Ser Ser Ser Ser Val Ser Ser
65 70

<210> 26
<211> 72
<212> PRT
<213> Artificial Sequence

001020550000

<223> Description of Artificial Sequence: Synthetic construct

Glu Glu Leu Arg Lys Arg Arg Glu Ala Tyr Phe Glu Lys Gln Gln Gln
1 5 10 15

Lys Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln

20 25 30

Gln Gln Gln Gln Gln Gln Gln Arg Asp Leu Ser Gly Gln Ser Ser His
35 40 45

Pro Cys Glu Arg Pro Ala Thr Ser Ser Gly Ala Leu Gly Ser Asp Leu
50 55 60

Gly Lys Ala Cys Ser Pro Phe Ile
65 70

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic construct

Gln Pro Ile Gln Asn Thr Asn Ser Leu Ser Ile Leu Glu Glu Gln Gln
1 5 10 15

Arg Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
20 25 30

Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
35 40 45

Gln Gln Gln Gln Gln Gln Gln Ala Val Ala Ala Ala Ala Val Gln Gln
50 55 60

Ser Thr Ser Gln Gln Ala Thr Gln Gly Thr Ser Gly Gln Ala Pro Gln
65 70 75 80

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic construct

Tyr Pro Tyr Asp Val Pro Asp Tyr Ala

5

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<220>
<223> Description of Artificial Sequence: Synthetic
construct
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<210> 30
<211> 25
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic construct

Gln Asn Glu Gln Leu Tyr Gln Pro Leu
20 25

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<210> 31
<211> 27
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic construct

Lys Lys Lys Ser Lys Thr Lys Cys Val Ile Met
20 25

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<210> 32
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 32

<210>	36
<211>	40
<212>	PRT

<223> Description of Artificial Sequence: Synthetic

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<400> 39
Lys Lys Glu Tyr Val Glu Leu Tyr Thr Gln Trp Arg Ile Val Asp Arg
  1          5          10          15
Val Gln Glu Gln Phe Lys Ala Phe Met Asp Gly Phe Asn Glu Leu Ile
          20          25          30
Pro Glu Asp Leu Val Thr Val Phe Asp Glu Arg
      35          40

```

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 40
Glu Leu Glu Leu Leu Ile Gly Gly Ile Ala Glu Ile Asp Ile Glu Asp
1 5 10 15
Trp Lys Lys His Thr Asp Tyr Arg Gly Tyr Gln Glu Ser Asp Glu Val
20 25 30
Ile Gln Trp Phe Trp Lys Cys Val Ser Glu Trp
35 40

```
<210> 41
<211> 44
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      construct
```

```

<400> 41
Asp Asn Glu Gln Arg Ala Arg Leu Leu Gln Phe Thr Thr Gly Thr Ser
 1              5              10              15
Arg Ile Pro Val Asn Gly Phe Lys Asp Leu Gln Gly Ser Asp Gly Pro
          20              25              30
Arg Arg Phe Thr Ile Glu Lys Ala Gly Glu Val Gln
    35              40

```

```
<210> 42
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct
```



```
<210> 43
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct
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<400> 43
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

```
<210> 44
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      construct
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~~<400> 44
Thr Pro Pro Leu Leu Leu Arg Leu Val
1 5~~

```
<210> 45
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      construct
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~~<400> 45
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10~~

 $\Delta 400 > 42$

Gln Leu Pro Lys Ser His Thr Cys Phe Asn Arg Val Asp Leu Pro Gln
1 5 10 15

Tyr Val Asp Tyr Asp Ser Met Lys Gln Lys Leu Thr Leu Ala Val Glu
20 25 30

Glu Thr Ile Gly Phe Gly Gln Glu
35 40

```
<210> 43
<211> 9
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 43
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

```
<210> 44
<211> 9
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic construct

~~<400> 44
Thr Pro Pro Leu Leu Leu Arg Leu Val
1 5~~

```
<210> 45
<211> 10
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic construct

~~<400> 45
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10~~

 $\Delta 400 > 42$

Gln Leu Pro Lys Ser His Thr Cys Phe Asn Arg Val Asp Leu Pro Gln
1 5 10 15

Tyr Val Asp Tyr Asp Ser Met Lys Gln Lys Leu Thr Leu Ala Val Glu
20 25 30

Glu Thr Ile Gly Phe Gly Gln Glu
35 40

```
<210> 43
<211> 9
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic construct

<400> 43
Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
1 5

```
<210> 44
<211> 9
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic construct

~~<400> 44
Thr Pro Pro Leu Leu Leu Arg Leu Val
1 5~~

```
<210> 45
<211> 10
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Description of Artificial Sequence: Synthetic construct

~~<400> 45
Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
1 5 10~~